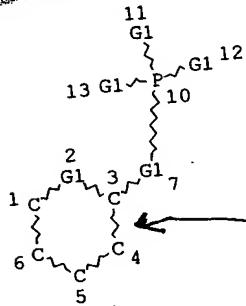


SEARCHED BY SUSAN HANLEY 305-4053

Page 2

LEE 09/413,381

~~1>d que 114~~
~~L7 REGISTRY STR~~



Parent STR

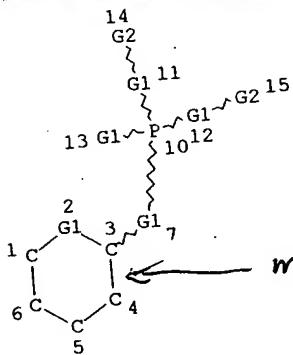
any type of bonding

VAR G1=O/S/N
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
 SCR 1838 AND 2016
 L8 5213 SEA FILE=REGISTRY SSS FUL L7 AND L8
 L10 ~~L11 REGISTRY STR~~



must be single exact bonding

VAR G1=O/S/N
 VAR G2=H/AK/CY
 NODE ATTRIBUTES:
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 DEFAULT ECLEVEL IS LIMITED

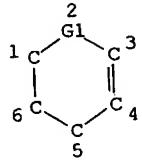
GRAPH ATTRIBUTES:

RSPEC I
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 SCR 4236 SEA FILE=REGISTRY SUB=L10 SSS FUL L11
 L13 8149 SEA FILE=HCAPLUS ABB=ON PLU=ON L13
 L14

Excluded 146
L43 STR

STRUCTURE for starting material



VAR G1=0/S/N

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 3

CONNECT IS E2 RC AT 4

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L45 5539 SEA FILE=REGISTRY SSS FUL L43

L46 6272 SEA FILE=HCAPLUS ABB=ON PLU=ON L45

Inventors
work

=> d bib abs hitstr 15 1

ANSWER TO OF 4 HCPLUS, COPYRIGHT 2000 ACS
 AN 2000:241242 HCPLUS
 DN 132:251369
 TI Combinatorial synthesis of oligosaccharide phosphates via glycosidation reaction
 IN Seeberger, Peter H.; Plante, Obadiah J.
 PA Massachusetts Institute of Technology, USA
 SO PCT Int. Appl., 92 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

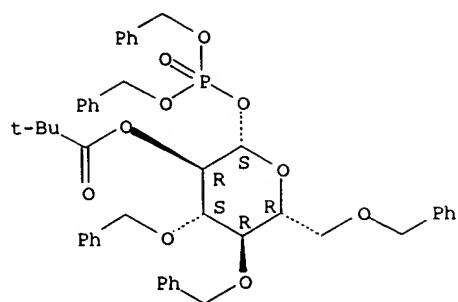
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000020428	A2	20000413	WO 1999-US23292	19991006

 W: CA, JP
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE
 PRAI US 1998-103291 19981006
 OS MARPAT 132:251369
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

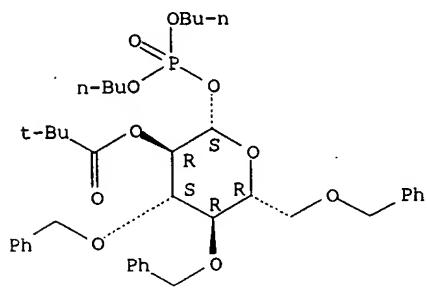
AB One aspect of the present invention relates to differentially protected glycosyl phosphates in prepn. of oligosaccharide phosphates I wherein X represents O, NR1, or S; Y represents independently for each occurrence O, NR1, or S; Z represents independently for each occurrence O, NR1, or S; R is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, and heteroaralkyl; R1 is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl, and sulfonyl; R2, R3, and R4 are independently selected from the group consisting of R, OR1, SR1, amine, OSO3H, OPO3H2; R5 is selected from the group consisting of R, (CR2)nOR1, (CR2)nSR1; and n is an integer selected from the range 0 to 10 inclusive. Another aspect of the present invention relates to the prepn. of glycosyl phosphates from glycal precursors. In another aspect of the present invention, glycosyl phosphates are used as glycosyl donors in glycosylation reactions. Thus, trisaccharide II was prep'd. via glycosidation reaction with glycal.
 IT 226919-62-6P 226919-63-7P 226919-64-8P
 226919-65-9P 226919-67-1P 226919-68-2P
 226919-72-8P 226919-78-4P 226919-79-5P
 226919-81-9P 226919-83-1P 226919-84-2P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (combinatorial synthesis of oligosaccharide phosphates via glycosidation reaction)
 RN 226919-62-6 HCPLUS
 CN .beta.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-[bis(phenylmethyl)phosphate] 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



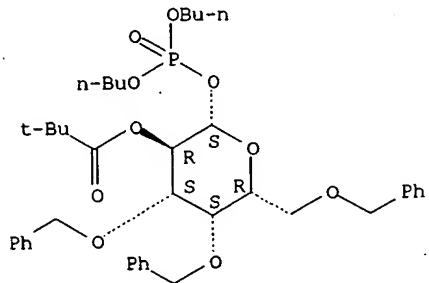
RN 226919-63-7 HCPLUS
 CN .beta.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



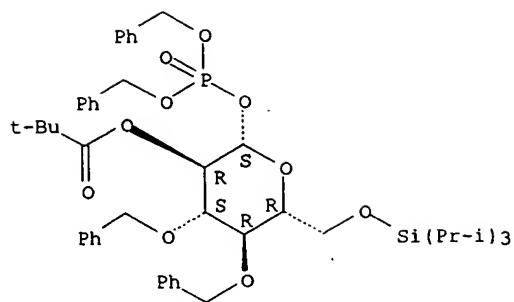
RN 226919-64-8 HCPLUS
 CN .beta.-D-Galactopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



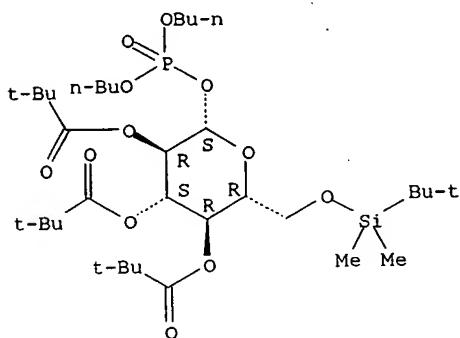
RN 226919-65-9 HCPLUS
 CN .beta.-D-Glucopyranose, 3,4-bis-O-(phenylmethyl)-6-O-[tris(1-methylethyl)silyl]-, 1-[bis(phenylmethyl) phosphate] 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



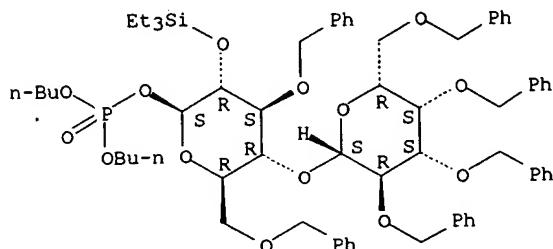
RN 226919-67-1 HCAPLUS
 CN .beta.-D-Glucopyranose, 6-O-[(1,1-dimethylethyl)dimethylsilyl]-, 1-(dibutyl phosphate) 2,3,4-tris(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



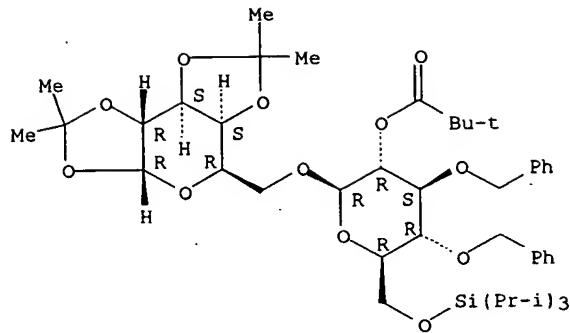
RN 226919-68-2 HCAPLUS
 CN .beta.-D-Glucopyranose, 3,6-bis-O-(phenylmethyl)-4-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-galactopyranosyl]-2-O-(triethylsilyl)-, dibutyl phosphate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 226919-72-8 HCAPLUS
 CN .alpha.-D-Galactopyranose, 6-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4-bis-O-(phenylmethyl)-6-O-[tris(1-methylethyl)silyl]-.beta.-D-glucopyranosyl]-1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

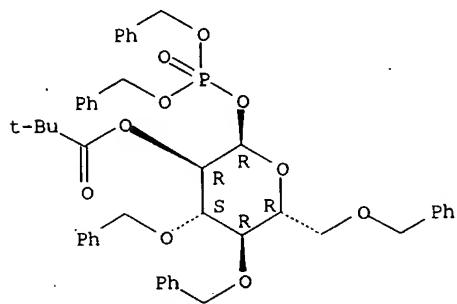
Absolute stereochemistry. Rotation (-).



RN 226919-78-4 HCPLUS

CN .alpha.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(bis(phenylmethyl) phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

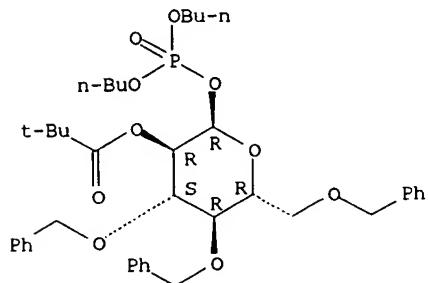
Absolute stereochemistry. Rotation (+).



RN 226919-79-5 HCPLUS

CN .alpha.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

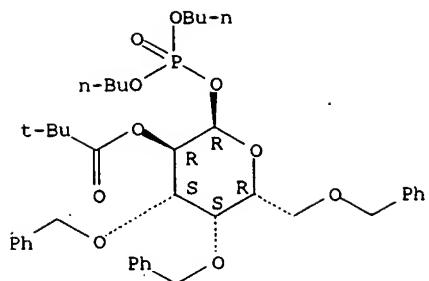
Absolute stereochemistry. Rotation (+).



RN 226919-81-9 HCPLUS

CN .alpha.-D-Galactopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

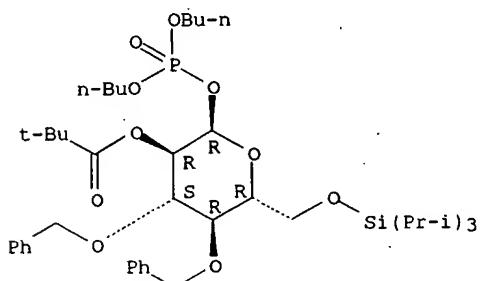
Absolute stereochemistry. Rotation (+).



RN 226919-83-1 HCAPLUS

CN .alpha.-D-Glucopyranose, 3,4-bis-O-(phenylmethyl)-6-O-[tris(1-methylethyl)silyl]-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

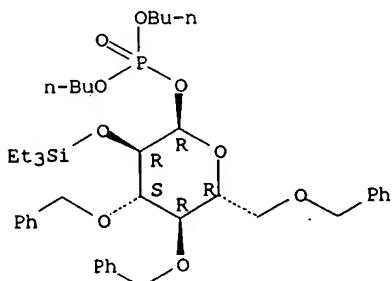
Absolute stereochemistry. Rotation (+).



RN 226919-84-2 HCAPLUS

CN .alpha.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-2-O-(triethylsilyl)-, dibutyl phosphate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 75-08-1, Thioethanol 582-52-5 2465-65-8

4064-06-6 33494-81-4 40246-30-8

55628-54-1 145852-76-2 226919-69-3

226919-70-6 262436-84-0

RL: RCT (Reactant)

(combinatorial synthesis of oligosaccharide phosphates via glycosidation reaction)

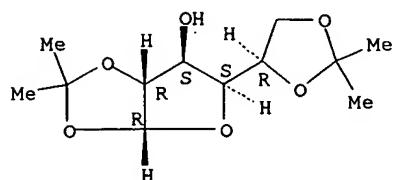
RN 75-08-1 HCAPLUS

CN Ethanethiol (8CI, 9CI) (CA INDEX NAME)

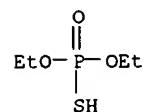
H₃C-CH₂-SH

RN 582-52-5 HCPLUS
 CN .alpha.-D-Glucofuranose, 1,2:5,6-bis-O-(1-methylethylidene)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry. Rotation (-).

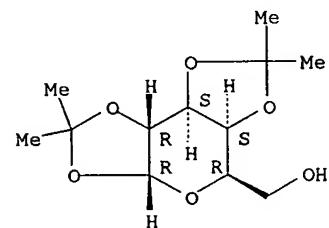


RN 2465-65-8 HCPLUS
 CN Phosphorothioic acid, O,O-diethyl ester (8CI, 9CI) (CA INDEX NAME)

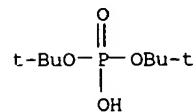


RN 4064-06-6 HCPLUS
 CN .alpha.-D-Galactopyranose, 1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

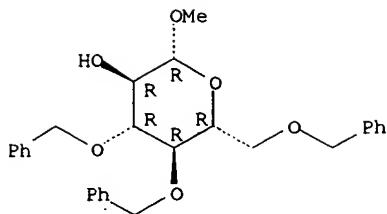


RN 33494-81-4 HCPLUS
 CN Phosphoric acid, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



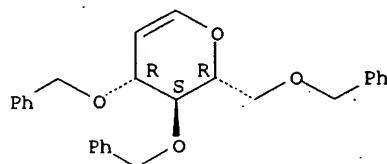
RN 40246-30-8 HCPLUS
 CN .beta.-D-Glucopyranoside, methyl 3,4,6-tris-O-(phenylmethyl)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



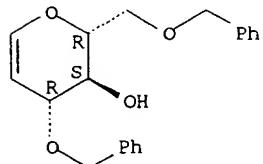
RN 55628-54-1 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-3,4,6-tris-O-(phenylmethyl)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



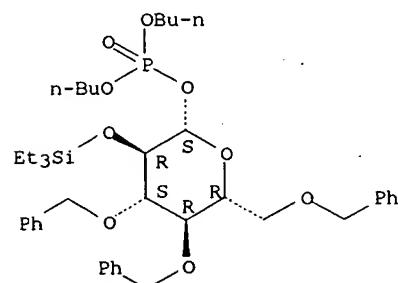
RN 145852-76-2 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-3,6-bis-O-(phenylmethyl)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



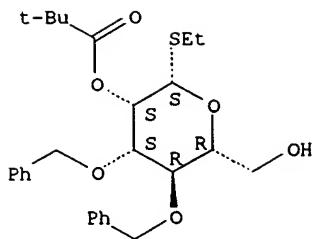
RN 226919-69-3 HCAPLUS
 CN .beta.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-2-O-(triethylsilyl)-,
 dibutyl phosphate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



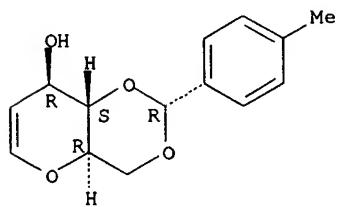
RN 226919-70-6 HCAPLUS
 CN .beta.-D-Mannopyranoside, ethyl 3,4-bis-O-(phenylmethyl)-1-thio-,
 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 262436-84-0 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-4,6-O-[(R)-(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)

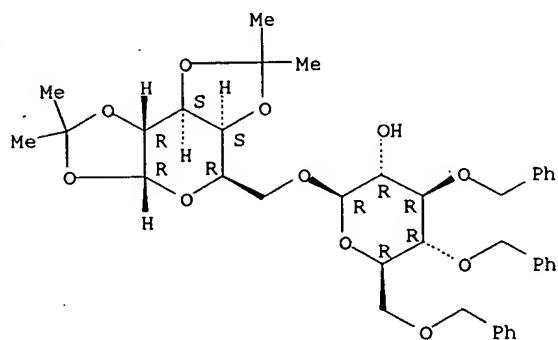
Absolute stereochemistry.



IT 40246-33-1P 201210-64-2P 219122-26-6P
 219122-30-2P 226919-66-0P 226919-71-7P
 226919-73-9P 226919-76-2P 262590-82-9P
 262590-83-0P 262590-84-1P 262590-85-2P
 262590-86-3P 262590-87-4P 262590-88-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (combinatorial synthesis of oligosaccharide phosphates via
 glycosidation reaction)

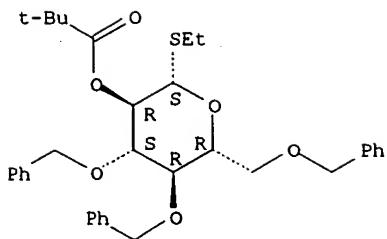
RN 40246-33-1 HCAPLUS
 CN .alpha.-D-Galactopyranose, 1,2:3,4-bis-O-(1-methylethylidene)-6-O-[3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 201210-64-2 HCAPLUS
 CN .beta.-D-Glucopyranoside, ethyl 3,4,6-tris-O-(phenylmethyl)-1-thio-, 2,2-dimethylpropanoate (9CI) (CA INDEX NAME)

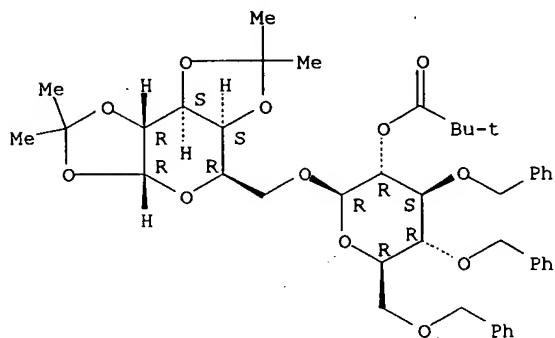
Absolute stereochemistry.



RN 219122-26-6 HCPLUS

CN .alpha.-D-Galactopyranose, 6-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]-1,2:3,4-bis-O-(1-methylethylidene)-(9CI) (CA INDEX NAME)

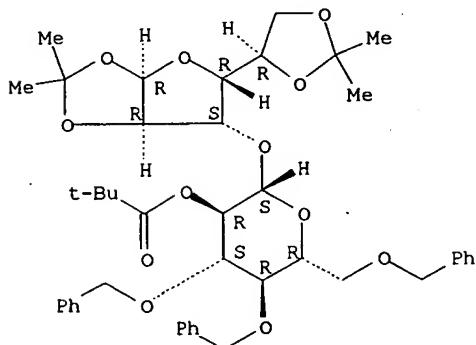
Absolute stereochemistry. Rotation (-).



RN 219122-30-2 HCPLUS

CN .alpha.-D-Glucofuranose, 3-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]-1,2:5,6-bis-O-(1-methylethylidene)-(9CI) (CA INDEX NAME)

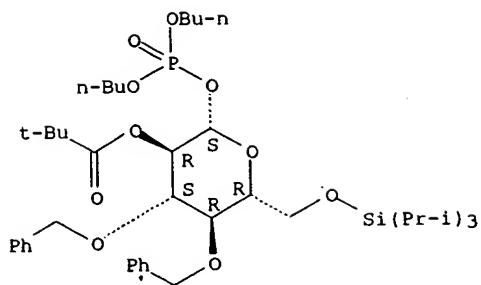
Absolute stereochemistry. Rotation (-).



RN 226919-66-0 HCPLUS

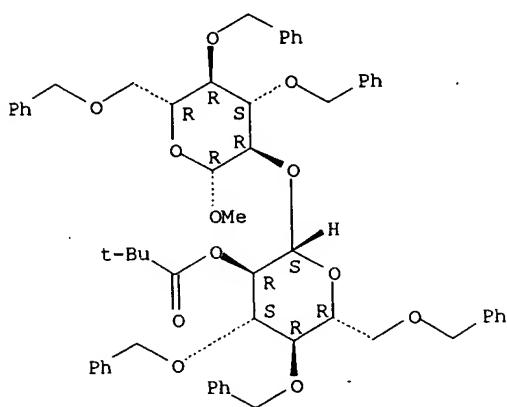
CN .beta.-D-Glucopyranose, 3,4-bis-O-(phenylmethyl)-6-O-[tris(1-methylethyl)silyl]-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



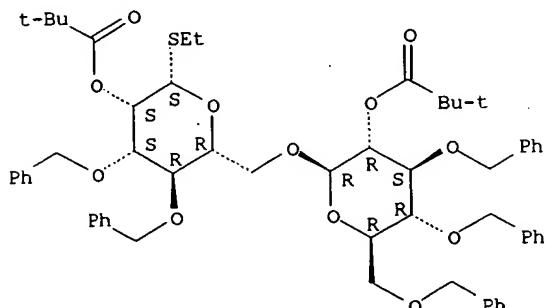
RN 226919-71-7 HCPLUS
CN .beta.-D-Glucopyranoside, methyl 2-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]-3,4,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 226919-73-9 HCPLUS
CN .beta.-D-Mannopyranoside, ethyl 6-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]-3,4-bis-O-(phenylmethyl)-1-thio-, 2,2-dimethylpropanoate (9CI) (CA INDEX NAME)

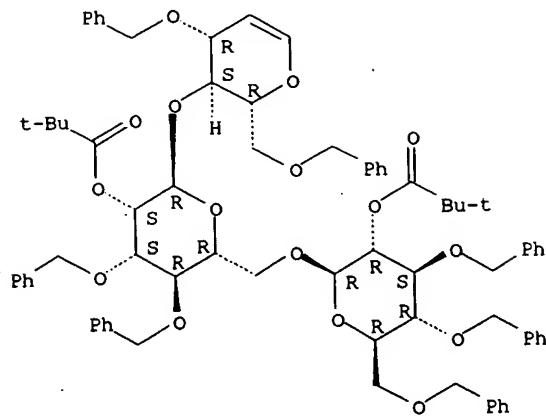
Absolute stereochemistry. Rotation (-).



RN 226919-76-2 HCAPLUS
CN D-arabino-Hex-1-enitol, O-2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl-(1.fwdarw.6)-O-2-O-(2,2-dimethyl-1-oxopropyl)-3,4-bis-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.4)-1,5-anhydro-2-deoxy-3,6-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

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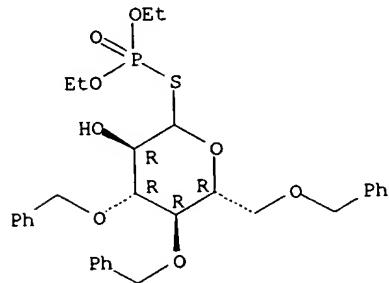
Absolute stereochemistry. Rotation (-).



RN 262590-82-9 HCAPLUS

CN D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-1-thio-, 1-(diethyl phosphate) (9CI) (CA INDEX NAME)

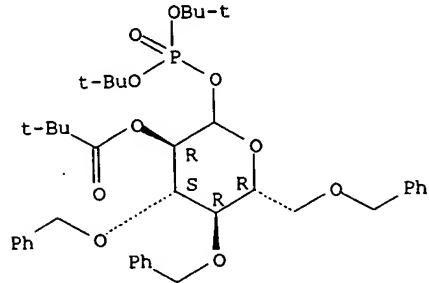
Absolute stereochemistry.



RN 262590-83-0 HCAPLUS

CN D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-[bis(1,1-dimethylethyl) phosphate] 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

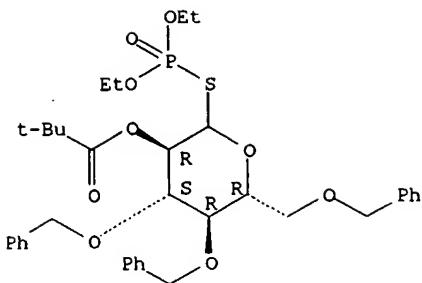
Absolute stereochemistry.



RN 262590-84-1 HCAPLUS

CN D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-1-thio-, 1-(diethyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

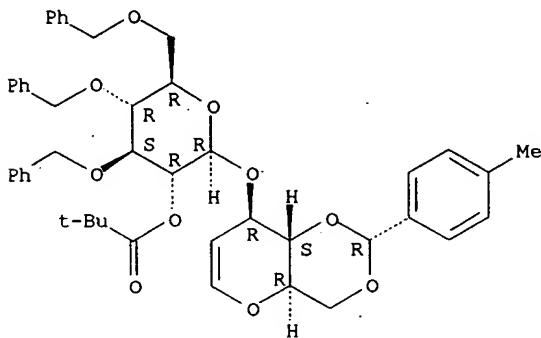
Absolute stereochemistry.



RN 262590-85-2 HCPLUS

CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-3-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]-4,6-O-[(R)-(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)

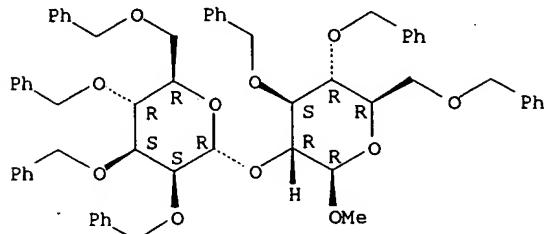
Absolute stereochemistry.



RN 262590-86-3 HCPLUS

CN .beta.-D-Glucopyranoside, methyl 3,4,6-tris-O-(phenylmethyl)-2-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-mannopyranosyl]- (9CI) (CA INDEX NAME)

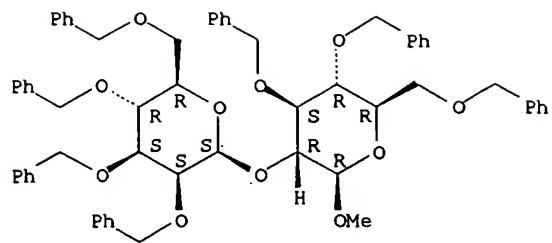
Absolute stereochemistry.



RN 262590-87-4 HCPLUS

CN .beta.-D-Glucopyranoside, methyl 3,4,6-tris-O-(phenylmethyl)-2-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-mannopyranosyl]- (9CI) (CA INDEX NAME)

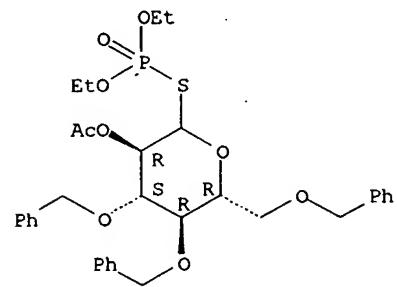
Absolute stereochemistry.



RN 262590-88-5 HCAPLUS

CN D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-1-thio-, 2-acetate 1-(diethyl phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 15 2

L5 ANSWER 2 OF 4 HCPLUS COPYRIGHT 2000 ACS
 AN 1999:694715 HCPLUS
 DN 132:93556
 TI Solid-Phase Oligosaccharide Synthesis: Preparation of Complex Structures
 Using a Novel Linker and Different Glycosylating Agents
 AU Andrade, Rodrigo B.; Plante, Obadiah J.; Melean, Luis G.;
 Seeberger, Peter H.
 CS Department of Chemistry, Massachusetts Institute of Technology, Cambridge,
 MA, 02139, USA
 SO Org. Lett. (1999), 1(11), 1811-1814
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 132:93556
 AB A beta-(1.fwdarw.4)-linked trisaccharide was prepd. in 53% yield on a
 polymer support using glycosyl phosphates and released by cross-metathesis
 of a novel linker to reveal the anomeric n-pentenyl glycoside.
 Heptasaccharide was prepd. in 9% yield in 14 steps.
 IT 111-78-4, 1,5-Cyclooctadiene 627-42-9, 2-Chloroethyl
 methyl ether 129163-12-8 172222-30-9, Grubbs'
 ruthenium catalyst 253683-26-0 253683-40-8D,
 Merrifield resin bound 253683-41-9
 RL: RCT (Reactant)
 (solid phase oligosaccharide synthesis using a novel linker and
 different glycosylating agents)
 RN 111-78-4 HCPLUS
 CN 1,5-Cyclooctadiene (6CI, 8CI, 9CI) (CA INDEX NAME)

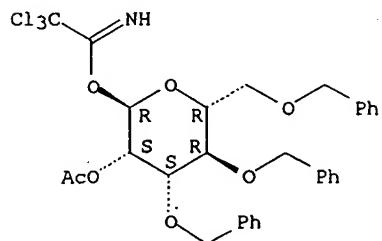


RN 627-42-9 HCPLUS
 CN Ethane, 1-chloro-2-methoxy- (9CI) (CA INDEX NAME)

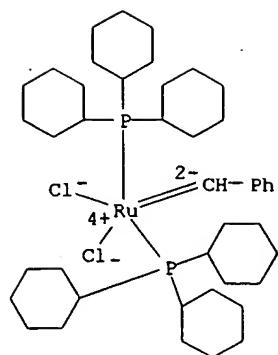
Cl-CH₂-CH₂-O-CH₃

RN 129163-12-8 HCPLUS
 CN alpha-D-Mannopyranose, 3,4,6-tris-O-(phenylmethyl)-, 2-acetate
 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



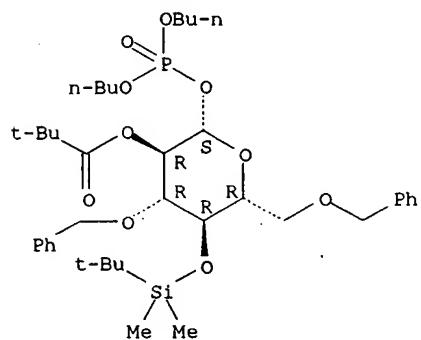
RN 172222-30-9 HCPLUS
 CN Ruthenium, dichloro(phenylmethylene)bis(tricyclohexylphosphine)-,
 (SP-5-31)- (9CI) (CA INDEX NAME)



RN 253683-26-0 HCAPLUS

CN .beta.-D-Glucopyranose, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

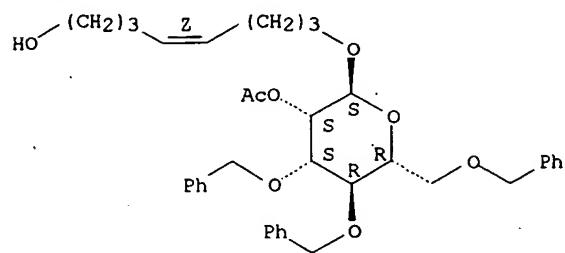


RN 253683-40-8 HCAPLUS

CN .alpha.-D-Mannopyranoside, (4Z)-8-hydroxy-4-octenyl 3,4,6-tris-O-(phenylmethyl)-, 2-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

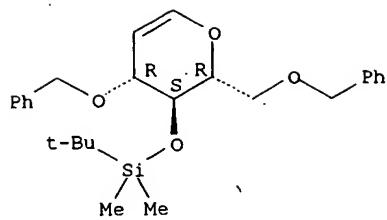
Double bond geometry as shown.



RN 253683-41-9 HCAPLUS

CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

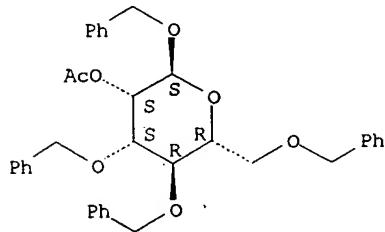
Absolute stereochemistry.



IT 61134-29-0P 62422-45-1DP, Merrifield resin bound
 62422-45-1P 143706-45-0P 253683-23-7P
 253683-24-8P 253683-25-9P 253683-27-1DP,
 Merrifield resin bound 253683-28-2P 253683-39-5P
 254442-15-4DP, Merrifield resin bound 254442-16-5DP,
 Merrifield resin bound 254442-17-6DP, Merrifield resin bound
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (solid phase oligosaccharide synthesis using a novel linker and
 different glycosylating agents)

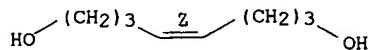
RN 61134-29-0 HCPLUS
 CN .alpha.-D-Mannopyranoside, phenylmethyl 3,4,6-tris-O-(phenylmethyl)-,
 acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



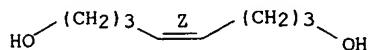
RN 62422-45-1 HCPLUS
 CN 4-Octene-1,8-diol, (4Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



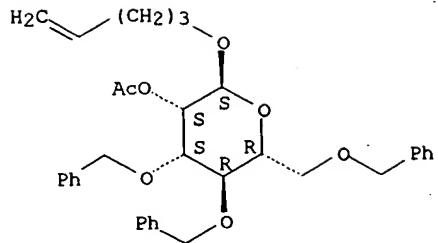
RN 62422-45-1 HCPLUS
 CN 4-Octene-1,8-diol, (4Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



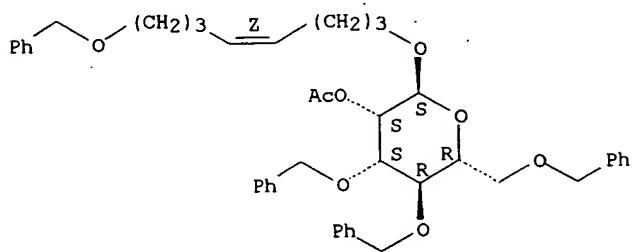
RN 143706-45-0 HCPLUS
 CN .alpha.-D-Mannopyranoside, 4-pentenyl 3,4,6-tris-O-(phenylmethyl)-,
 acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



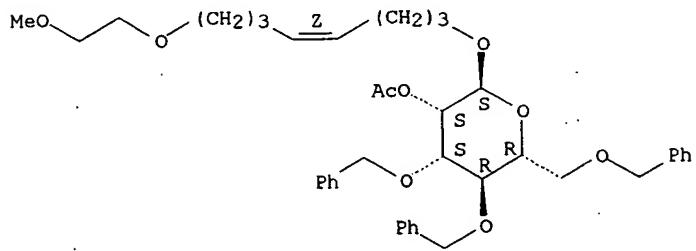
RN 253683-23-7 HCAPLUS
 CN .alpha.-D-Mannopyranoside, (4Z)-8-(phenylmethoxy)-4-octenyl
 3,4,6-tris-O-(phenylmethyl)-, acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
 Double bond geometry as shown.



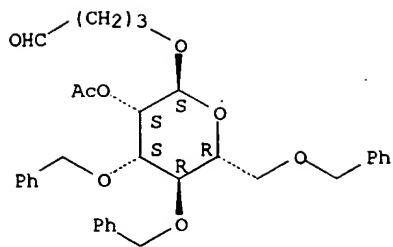
RN 253683-24-8 HCAPLUS
 CN .alpha.-D-Mannopyranoside, (4Z)-8-(2-methoxyethoxy)-4-octenyl
 3,4,6-tris-O-(phenylmethyl)-, acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
 Double bond geometry as shown.



RN 253683-25-9 HCAPLUS
 CN Butanal, 4-[(2-O-acetyl-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-
 mannopyranosyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



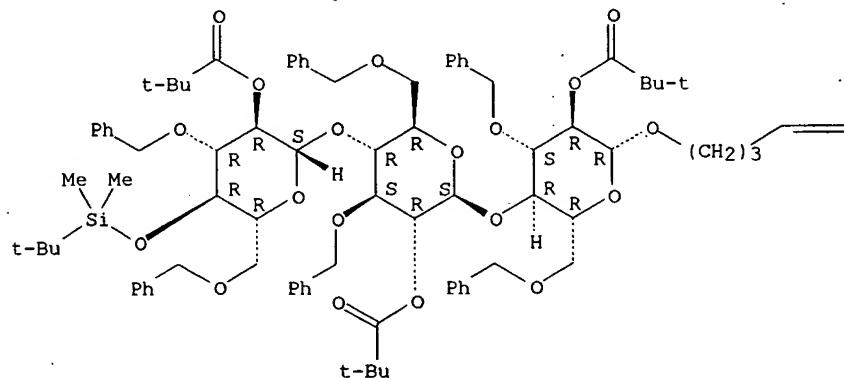
RN 253683-27-1 HCAPLUS

CN .beta.-D-Glucopyranoside, (4Z)-8-hydroxy-4-octenyl O-4-O-[(1,1-dimethylethyl)dimethylsilyl]-2-O-(2,2-dimethyl-1-oxopropyl)-3,6-bis-O-(phenylmethyl)-.beta.-D-glucopyranosyl-(1.fwdarw.4)-O-2-O-(2,2-dimethyl-1-oxopropyl)-3,6-bis-O-(phenylmethyl)-.beta.-D-glucopyranosyl-(1.fwdarw.4)-3,6-bis-O-(phenylmethyl)-, 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

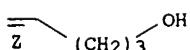
Absolute stereochemistry.

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

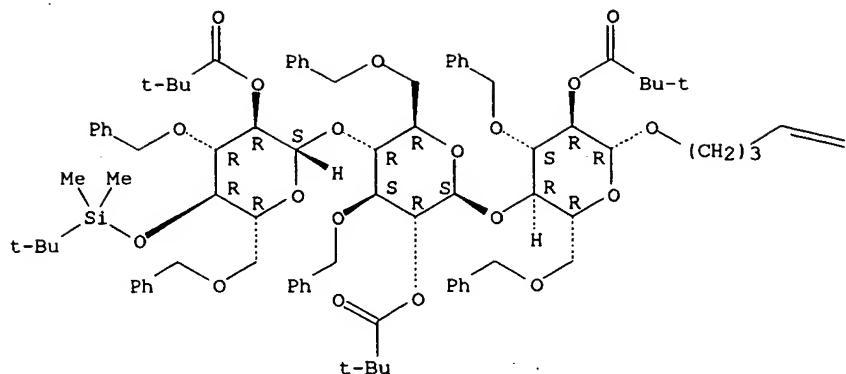


RN 253683-28-2 HCAPLUS

CN .beta.-D-Glucopyranoside, 4-pentenyl O-4-O-[(1,1-dimethylethyl)dimethylsilyl]-2-O-(2,2-dimethyl-1-oxopropyl)-3,6-bis-O-(phenylmethyl)-.beta.-D-glucopyranosyl-(1.fwdarw.4)-O-2-O-(2,2-dimethyl-1-oxopropyl)-3,6-bis-O-(phenylmethyl)-.beta.-D-glucopyranosyl-(1.fwdarw.4)-3,6-bis-O-(phenylmethyl)-, 2,2-dimethylpropanoate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A

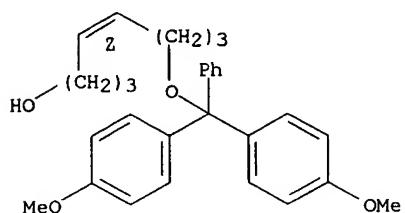


PAGE 1-B

=CH₂

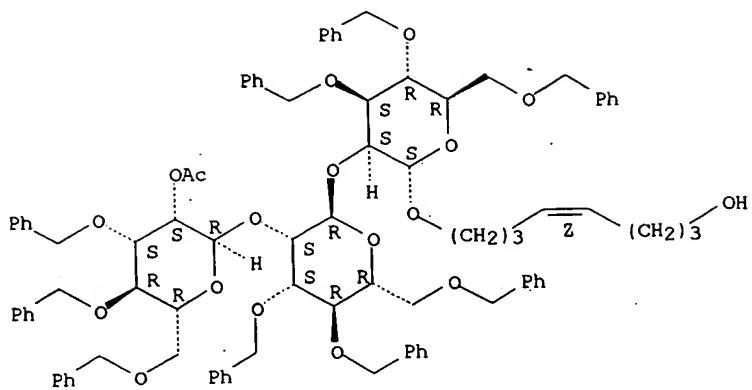
RN 253683-39-5 HCAPLUS
 CN 4-Octen-1-ol, 8-[bis(4-methoxyphenyl)phenylmethoxy]-, (4Z)- (9CI) (CA
 INDEX NAME)

Double bond geometry as shown.



RN 254442-15-4 HCAPLUS
 CN .alpha.-D-Mannopyranoside, (4Z)-8-hydroxy-4-octenyl O-2-O-acetyl-3,4,6-
 tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-
 (phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-3,4,6-tris-O-
 (phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

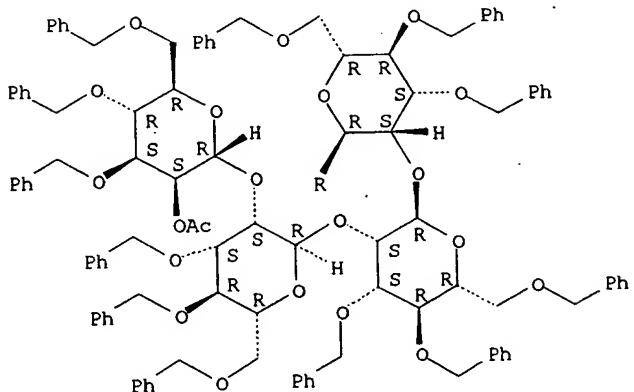


RN 254442-16-5 HCPLUS

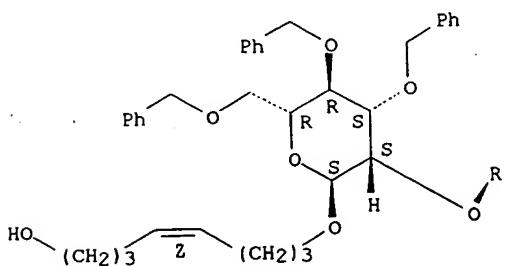
CN .alpha.-D-Mannopyranoside, (4Z)-8-hydroxy-4-octenyl O-2-O-acetyl-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-3,4,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 2-A



RN 254442-17-6 HCPLUS

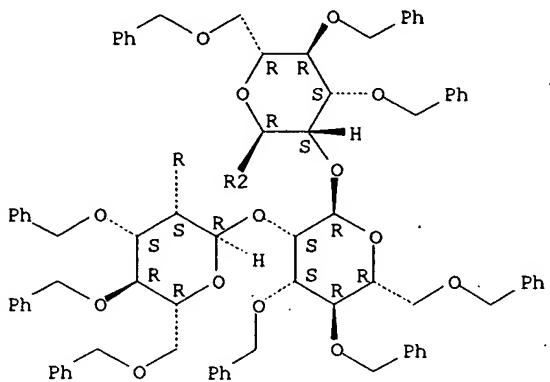
CN .alpha.-D-Mannopyranoside, (4Z)-8-hydroxy-4-octenyl O-2-O-acetyl-3,4,6-

SEARCHED BY SUSAN HANLEY 305-4053

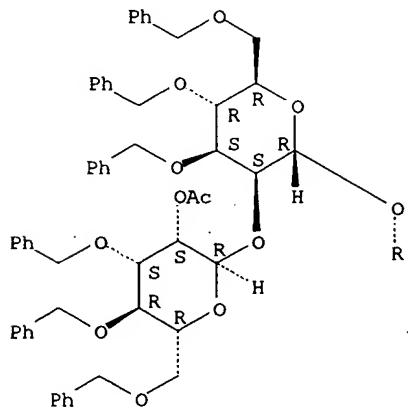
tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)- (9CI) (CA INDEX NAME)

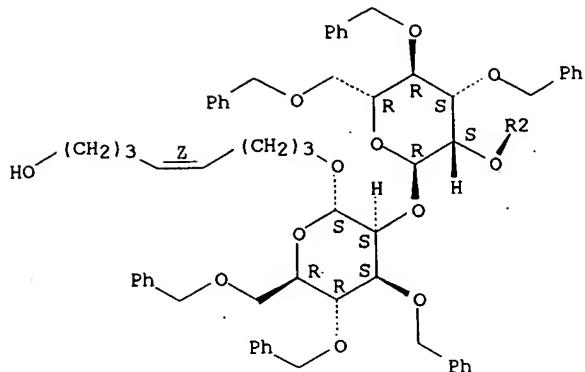
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 2-A





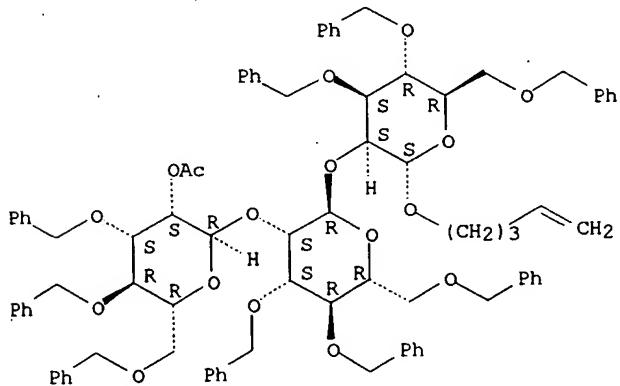
IT 143706-52-9P 253683-29-3P 253683-35-1P
253683-36-2P 253683-37-3P 253683-38-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(solid phase oligosaccharide synthesis using a novel linker and
different glycosylating agents)

RN 143706-52-9 HCPLUS

CN .alpha.-D-Mannopyranoside, 4-pentenyl O-2-O-acetyl-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-3,4,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

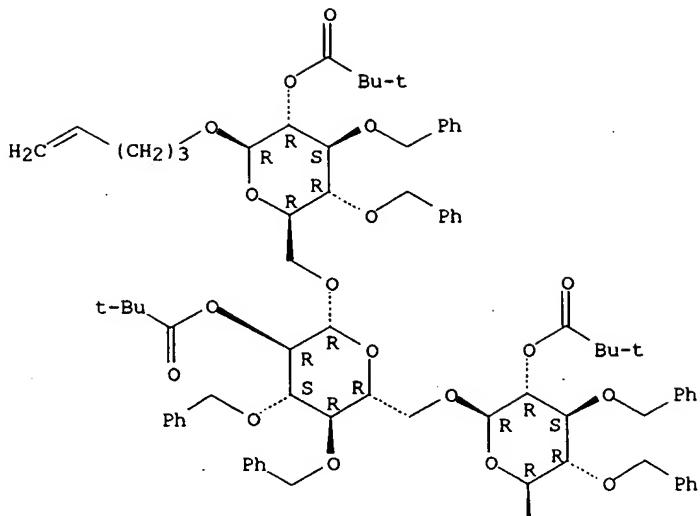


RN 253683-29-3 HCPLUS

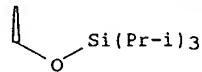
CN .beta.-D-Glucopyranoside, 4-pentenyl O-2-O-(2,2-dimethyl-1-oxopropyl)-3,4-bis-O-(phenylmethyl)-6-O-[tris(1-methylethyl)silyl]-.beta.-D-glucopyranosyl-(1.fwdarw.6)-O-2-O-(2,2-dimethyl-1-oxopropyl)-3,4-bis-O-(phenylmethyl)-.beta.-D-glucopyranosyl-(1.fwdarw.6)-3,4-bis-O-(phenylmethyl)-, 2,2-dimethylpropanoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

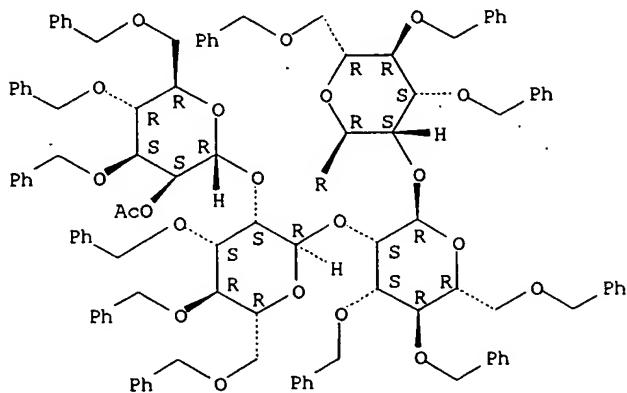


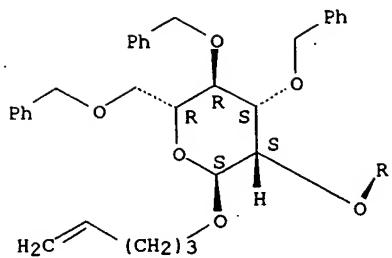
RN 253683-35-1 HCAPLUS

CN .alpha.-D-Mannopyranoside, 4-pentenyl O-2-O-acetyl-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-3,4,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

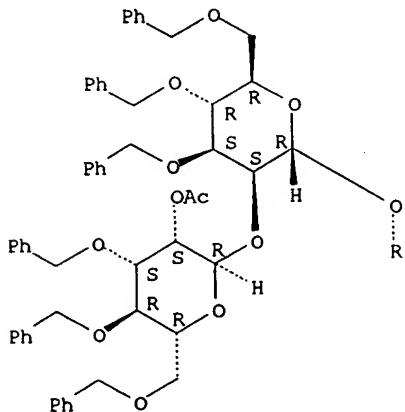
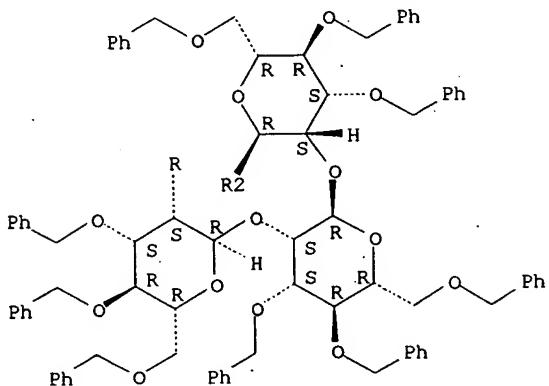




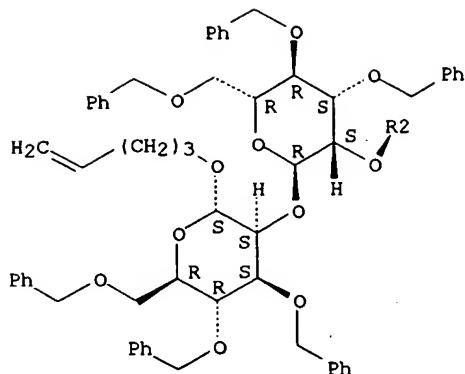
RN 253683-36-2 HCAPLUS

KN 253665 30 2 (NAME)
CN .alpha.-D-Mannopyranoside, 4-pentenyl O-2-O-acetyl-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-O-3,4,6-tris-O-(phenylmethyl)-.alpha.-D-mannopyranosyl-(1.fwdarw.2)-3,4,6-tris-O-(phenylmethyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

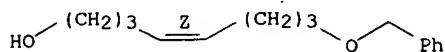


PAGE 3-A



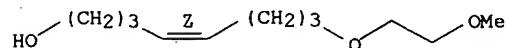
RN 253683-37-3 HCAPLUS
 CN 4-Octen-1-ol, 8-(phenylmethoxy)-, (4Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 253683-38-4 HCAPLUS
 CN 4-Octen-1-ol, 8-(2-methoxyethoxy)-, (4Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 50

RE

- (1) Adinolfi, M; Tetrahedron Lett 1996, V37, P5007 HCAPLUS
- (2) Adinolfi, M; Tetrahedron Lett 1998, V39, P1953 HCAPLUS
- (6) Caruthers, M; Science 1985, V230, P281 HCAPLUS
- (7) Danishefsky, S; Science 1993, V260, P1307 HCAPLUS
- (8) Douglas, S; J Am Chem Soc 1995, V117, P2116 HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

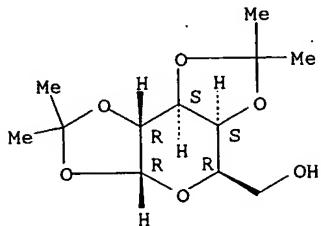
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L5 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2000 ACS
 AN 1999:334357 HCAPLUS
 DN 131:73867
 TI Synthesis and Use of Glycosyl Phosphates as Glycosyl Donors
 AU Plante, Obadian J.; Andrade, Rodrigo B.; Seeberger, Peter
 H.
 CS Department of Chemistry, Massachusetts Institute of Technology, Cambridge,
 MA, 02139, USA
 SO Org. Lett. (1999), 1(2), 211-214
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 AB Differentially protected glycosyl phosphates prep'd. by a straightforward
 synthesis from glycal precursors are used as powerful glycosyl donors.
 Activation of .beta.-glycosyl phosphates by TMSOTf at -78 .degree.C
 achieves the selective formation of .beta.-glycosidic linkages in
 excellent yields with complete stereoselectivity. Reaction with thiols
 results in the conversion of glycosyl phosphates into thioglycosides in
 nearly quant. yield. An orthogonal coupling strategy using glycosyl
 phosphate donors and thioethyl glycoside acceptors allows for the rapid
 synthesis of a trisaccharide.
 IT 75-08-1, Ethanethiol 4064-06-6 40246-30-8
 55628-54-1 80040-79-5 114117-12-3
 145852-76-2 196703-95-4 226919-70-6
 226919-85-3
 RL: RCT (Reactant)
 (prepn. and use of glycosyl phosphates as glycosyl donors)
 RN 75-08-1 HCAPLUS
 CN Ethanethiol (8CI, 9CI) (CA INDEX NAME)

H₃C—CH₂—SH

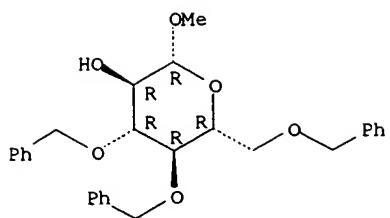
RN 4064-06-6 HCAPLUS
 CN .alpha.-D-Galactopyranose, 1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



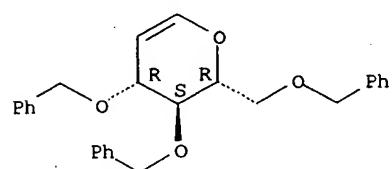
RN 40246-30-8 HCAPLUS
 CN .beta.-D-Glucopyranoside, methyl 3,4,6-tris-O-(phenylmethyl)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



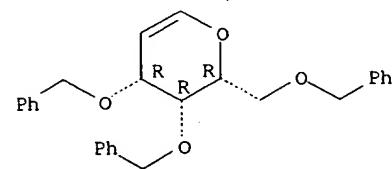
RN 55628-54-1 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-3,4,6-tris-O-(phenylmethyl)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



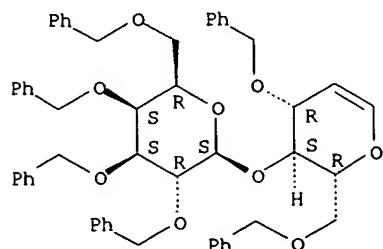
RN 80040-79-5 HCAPLUS
 CN D-arabino-Hex-5-enitol, 2,6-anhydro-5-deoxy-1,3,4-tris-O-(phenylmethyl)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



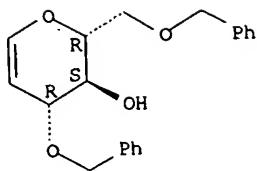
RN 114117-12-3 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-3,6-bis-O-(phenylmethyl)-4-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-galactopyranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



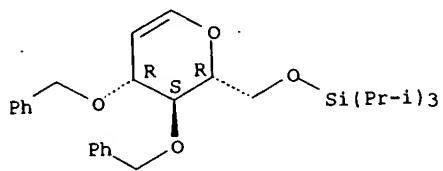
RN 145852-76-2 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-3,6-bis-O-(phenylmethyl)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



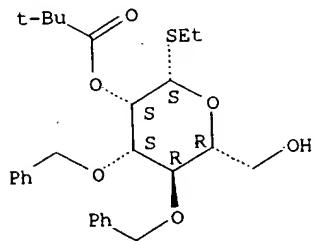
RN 196703-95-4 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-3,4-bis-O-(phenylmethyl)-6-O-[tris(1-methylethyl)silyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



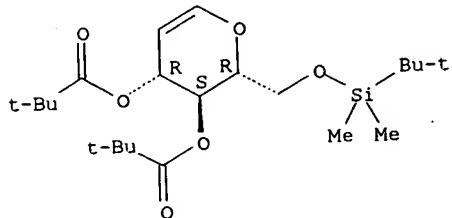
RN 226919-70-6 HCAPLUS
 CN .beta.-D-Mannopyranoside, ethyl 3,4-bis-O-(phenylmethyl)-1-thio-, 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 226919-85-3 HCAPLUS
 CN D-arabino-Hex-1-enitol, 1,5-anhydro-2-deoxy-6-O-[(1,1-dimethylethyl)dimethylsilyl]-, bis(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

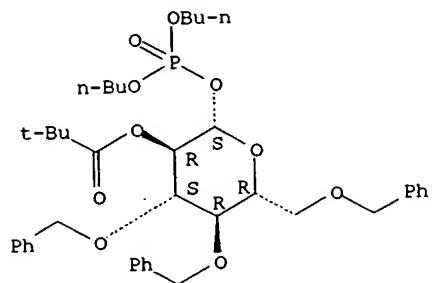
Absolute stereochemistry.



IT 226919-63-7P 226919-66-0P 226919-69-3P
 226919-73-9P 226919-79-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and use of glycosyl phosphates as glycosyl donors)
 RN 226919-63-7 HCAPLUS
 CN .beta.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

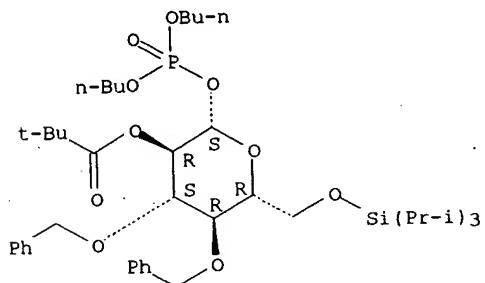
SEARCHED BY SUSAN HANLEY 305-4053

Absolute stereochemistry. Rotation (-).



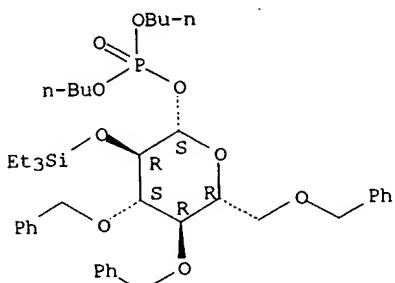
RN 226919-66-0 HCAPLUS
 CN .beta.-D-Glucopyranose, 3,4-bis-O-(phenylmethyl)-6-O-[tris(1-methylethyl)silyl]-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



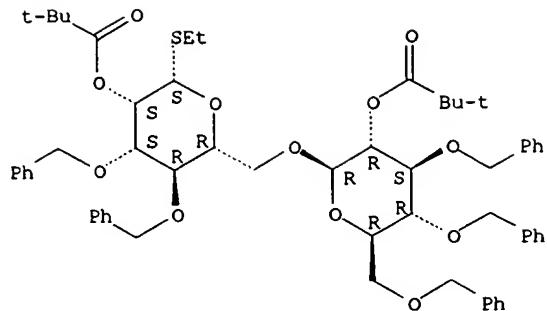
RN 226919-69-3 HCAPLUS
 CN .beta.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-2-O-(triethylsilyl)-, dibutyl phosphate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



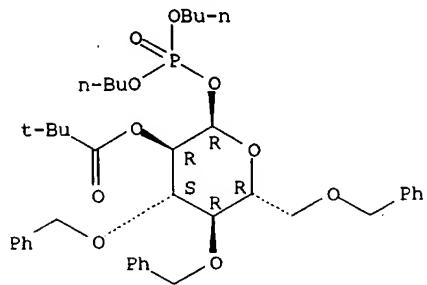
RN 226919-73-9 HCAPLUS
 CN .beta.-D-Mannopyranoside, ethyl 6-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]-3,4-bis-O-(phenylmethyl)-1-thio-, 2,2-dimethylpropanoate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



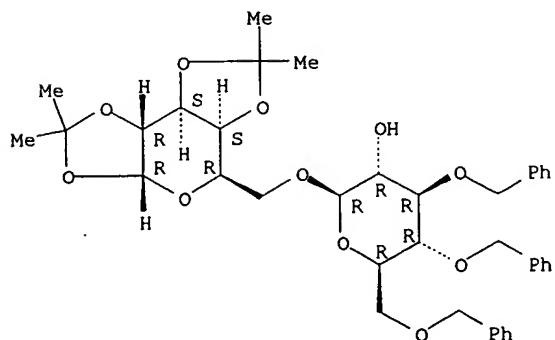
RN 226919-79-5 HCAPLUS
 CN .alpha.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 40246-33-1P 201210-64-2P 219122-26-6P
 226919-62-6P 226919-64-8P 226919-65-9P
 226919-67-1P 226919-68-2P 226919-71-7P
 226919-72-8P 226919-76-2P 226919-78-4P
 226919-81-9P 226919-83-1P 226919-84-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and use of glycosyl phosphates as glycosyl donors)
 RN 40246-33-1 HCAPLUS
 CN .alpha.-D-Galactopyranose, 1,2:3,4-bis-O-(1-methylethylidene)-6-O-[3,4,6-
 tris-O-(phenylmethyl)].beta.-D-glucopyranosyl- (9CI) (CA INDEX NAME)

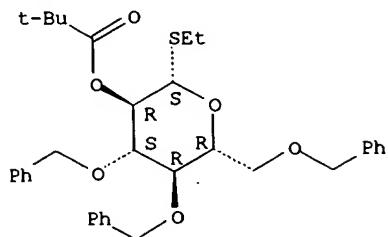
Absolute stereochemistry. Rotation (-).



RN 201210-64-2 HCAPLUS
 CN .beta.-D-Glucopyranoside, ethyl 3,4,6-tris-O-(phenylmethyl)-1-thio-,
 2,2-dimethylpropanoate (9CI) (CA INDEX NAME)

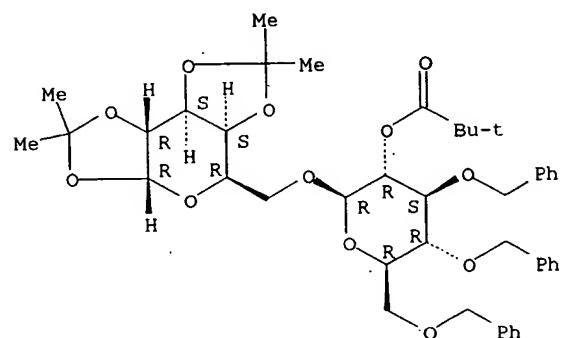
SEARCHED BY SUSAN HANLEY 305-4053

Absolute stereochemistry.



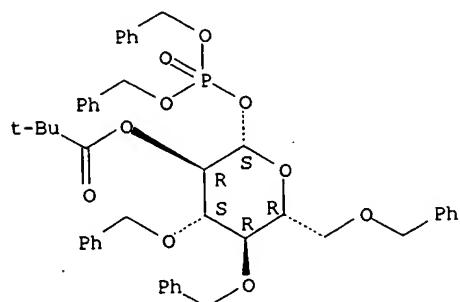
RN 219122-26-6 HCAPLUS
 CN .alpha.-D-Galactopyranose, 6-O-[2-O-(2,2-dimethyl-1-oxopropyl)-3,4,6-tris-O-(phenylmethyl)-.beta.-D-glucopyranosyl]-1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 226919-62-6 HCAPLUS
 CN .beta.-D-Glucopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-[bis(phenylmethyl)phosphate] 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 226919-64-8 HCAPLUS
 CN .beta.-D-Galactopyranose, 3,4,6-tris-O-(phenylmethyl)-, 1-(dibutyl phosphate) 2-(2,2-dimethylpropanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).